

METEOROLOGY FOR JUNE, 1877.

PRIVATE OBSERVATORY, HOBART TOWN.

Latitude 42° 52' 13" S.; Longitude 9h. 49m. 29.2s. E.

(Registered for the Royal Society of Tasmania.)

Day of Month.	Bar. corrected for instrumental error and to mean sea level.		Thermometers (Reading.)		Thermometers (Self-Registering.)		Relative Humidity. Percent		Clouds.		Wind.		Rain in Inches.		Spon. Evap.	Ozone. Chron. Scale.					
	7 30 a.m.	4 30 p.m.	Centigrade, 7 30 a.m.	Fahrenheit, 7 30 a.m.	Fahrenheit, 4 30 p.m.	Highest in Sun, 7 30 p.m.	Highest in Shade, 4 30 p.m.	Lowest on Grass, 7 30 a.m.	7 30 a.m.	4 30 p.m.	Character.	Amount.	Character.	Amount.	Direction from.	Force in lbs. per square foot.	Direction from.	Force in lbs. per square foot.	7 30 a.m.	7 30 a.m.	7 30 a.m.
1	30.120	30.133	13.0	56.0	50.5	68.5	60.0	34.0	87	86	N	10.0	K	7.0	SE	.52	W	.0	.08		5.5
2	30.210	30.140	13.5	56.0	52.0	70.0	58.0	35.5	87	86	K	7.0	KS	8.5	W	.26	NW	.0	.06		6.0
3	30.235	30.210	9.0	48.0	51.0	57.5	54.0	36.0	97	86	KS	10.0	KN	10.0	NW	.0	W	.0			3.5
4	30.330	30.320	9.0	48.0	57.0	87.0	62.0	33.0	79	76	KT	6.0	K	3.5	N	.0	NW	.0			3.0
5	30.335	30.235	5.0	41.0	53.5	75.5	58.0	33.5	84	80	K	5.0	0	0	NW	.0	NW	.36			2.0
6	30.225	30.200	7.0	44.0	54.0	58.0	55.0	31.5	86	87	K	10.0	K	9.0	NW	.52	NW	.36			2.5
7	30.145	30.030	10.0	50.0	60.0	74.5	60.0	34.5	86	82	K	10.0	KS	7.5	NW	.0	NW	.0	.03		3.0
8	29.810	29.740	9.0	49.0	61.0	74.0	66.0	37.0	93	77	K	7.5	K	4.0	NW	.0	W	.0			2.5
9	30.040	30.020	12.5	55.0	50.0	54.5	54.5	35.0	93	100	N	10.0	N	10.0	S	.52	S	.36	.60		5.0
10	30.000	29.945	7.5	46.0	49.5	56.0	53.0	32.5	93	80	K	4.0	KN	10.0	S	.0	S	.0	.44	.31	7.5
11	30.110	30.015	6.5	44.0	49.0	85.0	56.0	31.0	73	79	KS	4.0	K	3.0	W	.0	SW	.0	.01		4.0
12	29.640	29.640	2.0	35.0	47.0	65.5	55.0	30.5	91	79	KN	10.0	KN	7.0	NW	.26	W	.52			4.5
13	29.920	29.840	2.5	37.0	45.0	61.0	50.0	31.0	84	73	K	4.0	KN	10.0	W	.26	NW	.52	.02		3.0
14	29.500	29.625	7.5	46.0	47.0	59.5	50.0	34.5	79	93	KS	9.0	K	7.5	NW	.0	S	.0			4.0
15	29.535	29.625	8.5	47.5	47.0	49.5	48.5	31.5	93	93	N	10.0	N	10.0	W	2.60	W	.26	.62		6.0
16	29.920	29.015	6.5	43.5	44.0	49.0	48.0	30.0	77	85	KN	9.0	K	7.0	SW	5.21	W	.26	.30		8.0
17	29.945	30.115	12.0	54.0	54.0	70.5	54.0	34.0	70	70	K	7.0	K	7.0	N	.26	N	2.60			4.5
18	30.346	30.330	8.5	47.5	56.0	67.0	56.0	31.5	79	85	K	5.0	K	6.0	W	.26	NW	.0	.01		3.0
19	30.210	30.010	12.0	54.0	60.0	84.0	64.0	33.5	70	62	K	7.5	KS	6.0	N	2.60	NW	2.60			4.0
20	29.830	29.910	10.0	50.0	54.0	85.0	61.0	31.0	93	80	K	7.5	K	5.5	SE	.0	NW	.0	.13	.45	6.0
21	29.410	29.330	11.5	54.5	48.0	80.0	60.0	33.5	87	100	K	7.0	K	10.0	NW	2.60	NW	2.60			3.5
22	29.810	29.825	6.5	44.0	54.0	65.5	58.0	30.0	84	83	K	6.0	K	5.0	NW	.52	NW	.52	.60		6.5
23	29.940	29.920	9.0	49.0	54.0	66.0	60.0	33.5	74	70	K	7.5	K	7.5	N	.26	N	.0	.02		3.0
24	29.935	30.030	11.0	52.0	58.0	87.0	58.5	36.0	69	61	K	7.0	K	8.0	N	.26	W	.0			2.5
25	30.120	30.025	7.0	44.0	58.0	81.0	60.0	32.5	92	76	K	7.5	KS	4.5	W	.0	N	.26	.02		4.0
26	29.725	29.610	4.5	40.5	54.0	84.0	59.0	31.0	85	87	K	5.0	KS	7.0	NW	.0	NW	.26			3.0
27	29.140	29.620	5.5	42.0	47.5	67.0	55.5	33.5	86	86	K	5.5	N	10.0	NW	.52	SW	.52	.02		4.0
28	30.120	30.145	4.0	40.0	49.0	80.0	67.0	30.0	100	86	KS	7.0	K	6.0	W	.0	NW	.0	.40		6.0
29	30.235	30.310	6.0	41.0	54.0	85.0	72.0	33.0	92	86	K	10.0	K	10.0	W	.0	NW	.0	.01		3.5
30	30.310	30.510	4.0	39.0	45.0	86.0	71.0	32.5	78	87	KS	10.0	K	7.5	NW	.0	N	.0	.75		4.0
Mean Press. 29.981		Mean 8.00	M'n. Tem. 49.34	Mean 71.22	Mean 58.13	Mean 32.88	Mean 83	Mean for Month. 7.32		Mean Force ... 44 lbs.		TL. 3.37	TL. 1.51	TL. 129.50							
Greatest do. 30.510		Max. 13.50	...	Max. 87.00	Max. 72.00	Max. 37.00	...	Prev. Character, K & KS.		Greatest Force 5.21 "		Least Force.... 0 "		Mean 4.32							
Least do. 29.330		Min. 2.00	...	Min. 49.00	Min. 48.00	Min. 30.00		Prevailing Direction. N.W., and W.								

The Meteorological form brought into use at the beginning of 1876 differs in some respects from the former one. It has been adopted with the view of assimilating the Hobart Town records more closely with those of stations in Europe, America, etc., in order to co-operate in a system of International Meteorology. Readings are added from the centigrade thermometer, that being the instrument generally used on the continent of Europe.

The mean is in all cases taken from the sums of the two daily registers, not from the maximum and minimum.

The direction of the wind is registered from currents at a height of 92 feet above sea level, and its force in lbs. per square foot.

The relative quantity of rain that fell under the different winds is registered each morning at 7.30 a.m.

The 35 years' standard tables are used for obtaining the difference from average.

FRANCIS ABBOTT, F.R.A.S., etc.

- 20th. *Pyrus japonica* commencing to flower.
- " *Crocus vernus* ditto.
- 24th. *Calycanthus præcox* in full flower.
- 25th. Common Privet shedding leaves.

F. ABBOTT, JUN., Superintendent.

Results of observations taken at New Norfolk in June, 1877, in accordance with new forms, and registered at 7.30 a.m., and 4.30 p.m. :—
Barometer, mean of two daily readings, corrected and reduced, 30.026 in.

Thermometer, mean of 2 ditto, 45.38deg.
Ditto, mean of maximum and minimum in shade, 46.16deg.
Dew point, mean position of 2 daily readings, 42.46deg.
Elastic force of vapour, mean of 2 ditto, .278.
Humidity, mean of 2 ditto, .90.
Solar intensity, mean of maximum temperature, 99.23deg.
Terrestrial radiation, mean of minimum temperature, 32.80deg.

Rainfall, 2.46ins. : in excess of evaporation, .72in.
Evaporation, 1.74in.
Clouds, mean of 2 daily registers, 6.36.
Ozone, mean of 2 daily ditto, 8.16 ; scale, 0—10.
Wind, horizontal movement, 2610 miles.

W. E. SHOOTBRIDGE, Valleyfield.

Time of leafing, flowering and fruiting of a few standard plants in the Royal Society's Gardens during the month of June, 1877.

- 14th. *Iris alata* commencing to flower.
- 15th. *Maclaura aurantiaca* shedding leaves.